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### CodeGuru: Function Calls, Part 3 (Frame Pointer and Local Variables)

Feb 5, 2008 ... Call **Stack** Reconstruction Using **Frame Pointers** ... So, at any given time, you can trace **back** and see what all the **frames** were, ...

[www.codeguru.com/cpp/misc/misc/stack/article.php/c14799](http://www.codeguru.com/cpp/misc/misc/stack/article.php/c14799) - [Cached](#) - [Similar](#)

### How function calls work? « A brick short

Apr 10, 2005 ... **Stack frame** - The section of memory where the local variables, arguments, ... the function returns the **stack pointer** points **back** to where the **frame pointer** is. ... The **frame pointer** points to where **stack pointer** was. ...

[abrickshort.wordpress.com/2005/04/10/how-function-calls-work/](http://abrickshort.wordpress.com/2005/04/10/how-function-calls-work/) - [Cached](#) - [Similar](#)

### CSC-362 98F : Class 22: Stack frames

Appel provides a typical **stack frame** in Figure 6.2. A **frame pointer** indicates the ... This means that you have to trace **backward** an appropriate amount, ...

[www.math.grin.edu/~rebelsky/Courses/CS362/98F/Outlines/outline.22.html](http://www.math.grin.edu/~rebelsky/Courses/CS362/98F/Outlines/outline.22.html) - [Cached](#) - [Similar](#)

### x86 Disassembly/Functions and Stack Frames - Wikibooks, collection ...

Apr 23, 2009 ... Therefore, when we move the current value of the **stack pointer** (esp) ... jump **backwards** push ebp mov ebp, esp ; <-- regular **stack frame** ...

[en.wikibooks.org/wiki/X86\\_Disassembly/Functions\\_and\\_Stack\\_Frames](http://en.wikibooks.org/wiki/X86_Disassembly/Functions_and_Stack_Frames) - [Cached](#) - [Similar](#)

### Intel x86 Function-call Conventions - Assembly View

In C and modern CPU design conventions, the **stack frame** is a chunk of .... This gives control **back** to the calling function. Only the **stack pointer** and ...

[unixwiz.net/techtips/win32-callconv-asm.html](http://unixwiz.net/techtips/win32-callconv-asm.html) - [Cached](#) - [Similar](#)

### Optimization and Programming Guide - Assembler-level subroutine ...

The first word contains the caller's **back** chain (**pointer** to the previous **stack frame**). The second word is the location where the caller saves the Link ...

[publib.boulder.ibm.com/infocenter/systems/topic/com.ibm.xlf111.cell.doc/xlfopg/sublinkconventions.htm](http://publib.boulder.ibm.com/infocenter/systems/topic/com.ibm.xlf111.cell.doc/xlfopg/sublinkconventions.htm) - [Cached](#) - [Similar](#)

### Debugging with () - Examining the Stack

Usually this address is kept in a register called the **frame pointer** register .... an unusual **stack frame**, which sometimes requires to search **backward** in the ...

[www.svbug.com/documentation/gdbdocs/gdb\\_7.html](http://www.svbug.com/documentation/gdbdocs/gdb_7.html) - [Cached](#) - [Similar](#)

### GNU Compiler Collection (GCC) Internals

This discusses registers that address the **stack frame**. ... return address is not at a fixed offset from the **frame pointer** or **stack pointer** or argument **pointer**. ... but is provided for **backward** compatibility in pre GCC 3.0 compiled code. ...

[gcc.gnu.org/onlinedocs/gcc-3.3.2/gccint/Frame-Registers.html](http://gcc.gnu.org/onlinedocs/gcc-3.3.2/gccint/Frame-Registers.html) - [Cached](#) - [Similar](#)

### [PDF] Using a Frame Pointer

File Format: PDF/Adobe Acrobat - [View as HTML](#)

That removes the local **frame**, by copying the **frame pointer** value **back** into the **stack pointer**. This undoes all modifications to the **stack pointer** that ...

[inst.eecs.berkeley.edu/~cs164/sp09/ia32-reis/ia32-chapter-seven.pdf](http://inst.eecs.berkeley.edu/~cs164/sp09/ia32-reis/ia32-chapter-seven.pdf) - [Similar](#)

### Yet Another Mac Dev Blog: The Case of the Missing Stack Frames

And each function's epilog uses the 'leave' instruction to copy the base **pointer back** to the **stack pointer**, and pop the the old base **pointer back** into %ebp ...

[yamacdev.blogspot.com/2007/09/case-of-missing-stack-frames.html](http://yamacdev.blogspot.com/2007/09/case-of-missing-stack-frames.html) - [Cached](#) - [Similar](#)

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